BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to Roads and Drains at Gangamma Gudi Area in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.**

	Job No. 010-17-000001	P0190					Estimate Cost:	2500000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 141 / Item No. 19.1 / PWD SR 2014-16**	Cum							
	For CC Drain Gangamma Gudi Area		1	200.00	1.00	1.00	200.00		
	CC Road 1st Cross		1	60.00	5.00	0.10	30.00		
			1	18.00	5.00	0.10	9.00		
	Culverts		4	6.00	2.00	1.20	57.60		
							296.60	83.16	**24665.00**
	Basic Rate	77.00							
	Area Weightage @8%	6.16							
	Total	**83.16**							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2015-16**	Cum							
	For CC Drain Gangamma Gudi Area		1	200.00	1.00	0.15	30.00		
	CC Road 1st Cross		1	60.00	5.00	0.15	45.00		
			1	18.00	5.00	0.15	13.50		
	Culverts		4	6.00	1.80	0.15	6.48		
							94.98	5070.60	**481606.00**
	Basic Rate	4695.00							
	Area Weightage @ 8%	375.60							
	Total	**5070.60**							
3	KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6**, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 **Page No. 23 / Item No. 5.6 / PWD SR 2015-16**	Cum							
			4x2	6.00	0.60	0.90	25.92		
							25.92	4135.32	**107187.00**
	Basic Rate	3829.00							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Area Weightage @ 8%	306.32							
	Total	**4135.32**							
4	KSRB 15.1.2: Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. **Page No. 109 / Item No. 15.2 / PWD SR 2015-16**	Sqm							
			4x2	6.00		0.90	43.20		
							43.20	96.12	**4152.00**
	Basic Rate	89.00							
	Area Weightage @ 8%	7.12							
	Total	**96.12**							
5	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC) for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 18 / Item No. 4.48 / PWD SR 2015-16**	Cum							
	Bottom Concrete		1	200.00	0.90	0.15	27.00		
	Side Wall		2	200.00	0.15	0.60	36.00		
	Culvert Covering Slab		4	6.00	1.80	0.23	9.94		
							72.94	6332.04	**461834.00**
	Basic Rate	5863.00							
	Area Weightage @ 8%	469.04							
	Total	**6332.04**							
6	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2015-16**	Tonne							
	For Roof, Columns @ 70 Kg / Cum		0.075	72.94			**5.47**	59327.91	**324536.00**
	Revised Basic Rate	54933.25							
	Area Weightage @ 8%	4394.66							
	Total	**59327.91**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
7	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2015-16**	Sqm							
	CC Drain Side Wall		4	200.00		0.60	480.00		
	Culvert Bottom		4	6.00	0.60		14.40		
			4x2	6.00		0.23	11.04		
			4x2	1.80		0.23	3.31		
							508.75	306.72	**156044.00**
	Basic Rate	284.00							
	Area Weightage @ 8%	22.72							
	Total	**306.72**							
8	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete7.5 cms thick **Page No. 25 / Item No. 5.31.1/ PWD SR 2015-16**	Sqm							
	For Covering Slab		1	200.00		0.90	180.00		
				200.00			**180.00**	642.60	**115668.00**
	Basic Rate	595.00							
	Area Weightage @ 8%	47.60							
	Total	**642.60**							
9	KSRB 5-9: Providing chamfering edges to stone slab 2.5cms. wide as per specifications. (only chamfered length shall be recorded) KBS 5.1.13 **Page No. 24 / Item No. 5.22 / PWD SR 2015-16**	m							
			333	3.00			**1000.00**	35.64	**35640.00**
	Basic Rate	33.00							
	Area Weightage @ 8%	2.64							
	Total	**35.64**							
10	KSRB 5-8.2 : Providing two line dressing to granite stone slab / granite stone masonry as per specifications. KBS 5-1.13 **Page No. 24 / Item No. 5.18 / PWD SR 2015-16**	Sqm							
			Qty Vide Item No. 06				180.00		
							180.00	924.48	**166406.00**
	Basic Rate	856.00							
	Area Weightage @ 8%	68.48							
	Total	**924.48**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
11	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6 / PWD SR 2015-16**	Cum							
	Ramp		1	200.00	0.30	0.10	6.00		
	Culvert Coping		4	6.00	1.80	0.10	4.32		
	Ramp		2x4	6.00	0.90	0.15	6.48		
							16.80	5490.72	**92244.00**
	Basic Rate	5084.00							
	Area Weightage @ 8%	406.72							
	Total	**5490.72**							
12	KSRRB M600-6: cement concrete pavement, construction unreinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type as per clause 1051.2.2M20/M30 at 380/450 kg per cum, coarse and fine aggregate conforming to IS: 383, maximum size of coarse aggregate not exceeding 25mm, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including leveling the form work as per drawing,), spreading the concrete with shovels, rackers compacted using needle, scred and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved curing compound, finishing to lines and grade as per drawing complete as per	Cum							
	CC Road 1st cross		1	60.00	5.00	0.125	37.50		
			1	18.00	5.00	0.125	11.25		
							48.75	5287.68	**257774.00**
	Basic Rate	4896.00							
	Area Weightage @ 8%	391.68							
	Total	**5287.68**							
13	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. **174 / Item No. 22.7 / PWD SR 2015-16**	Sqm							
	CC Road		1	60.00	5.00		300.00		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			1	15.00	5.00		75.00		
							375.00	97.20	**36450.00**
	Basic Rate	90.00							
	Area Weightage @ 8%	7.20							
	Total	**97.20**							
14	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. **From 0.00 to 11.90 Km** (PWD SR Rates P No 139)	Cum							
			Vide Item No. 1				**266.94**	106.34	**28386.00**
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 TX 11.90Km X 2.0/km= 30.46	30.46							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
		98.46							
	Area Weightage @ 8%	7.88							
	Total	**106.34**							
	Sub Total								**2292592.00**
	KRIDL Charges @ 8%								**183407.00**
	Third Party inspection Charges @ 1%								**22926.00**
	Miscellaneous and other Charges	L/S							**1075.00**
								Total	**2500000.00**
	Rupees Twenty Five Lakh(s) Only								

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16.
3 This work included under 2016-17 Mayor Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer 16/8/16
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

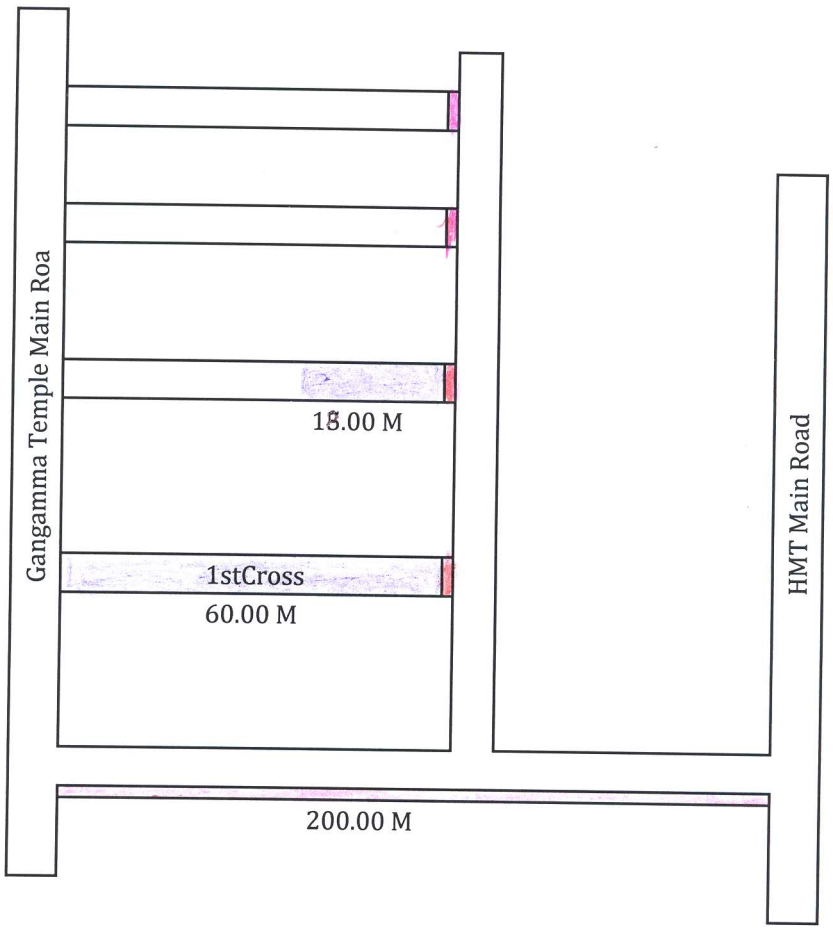
Administrative Approval
Accorded For "25.00" lakh Rs.
Head of A/C P0190
CER NO : 20 Dt: 16.08.16

TA CE (YNK)

Technical Sanction
Accorded For "25.00" lakh Rs.
Head of A/C. P0190
CER NO ... 28 ... Dt: 16.08.16

TA CE (YNK)

Sketch Showing the Work of Improvements to Roads and Drains at Gangamma Gudi Area in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.

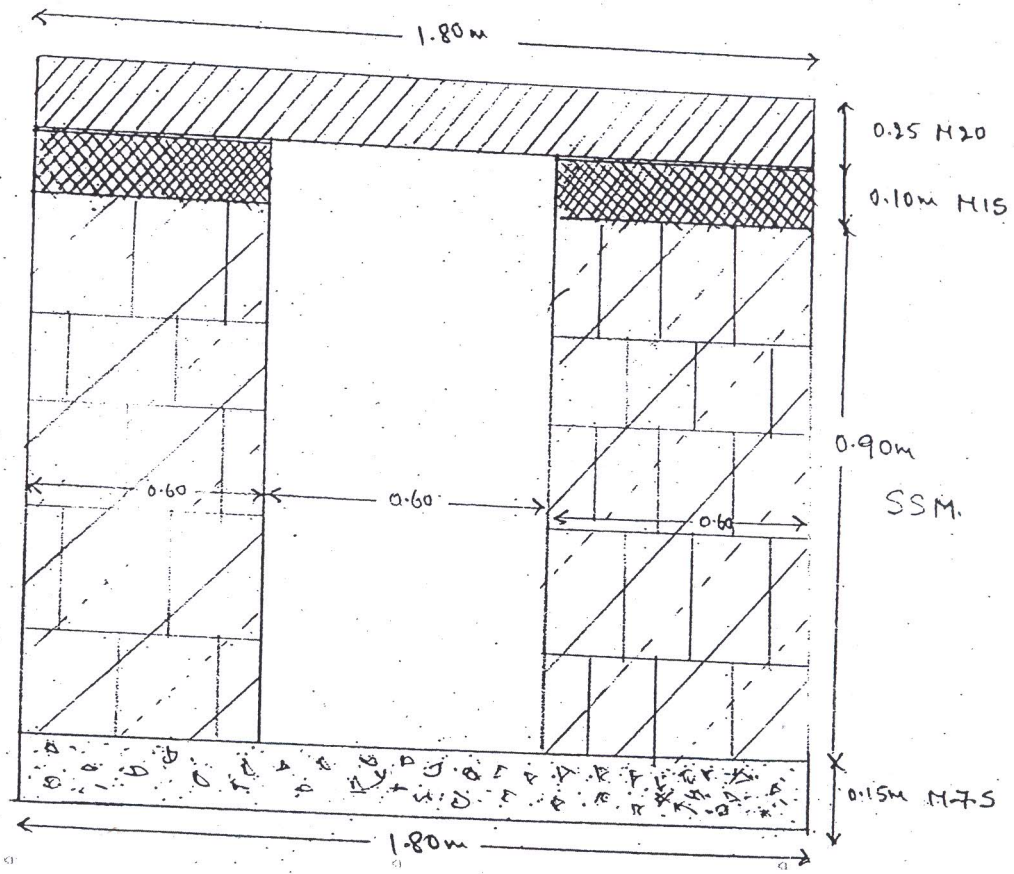


INDEX:

- Propsed CC Drain
- Proposed Culvert
- Proposed CC Road

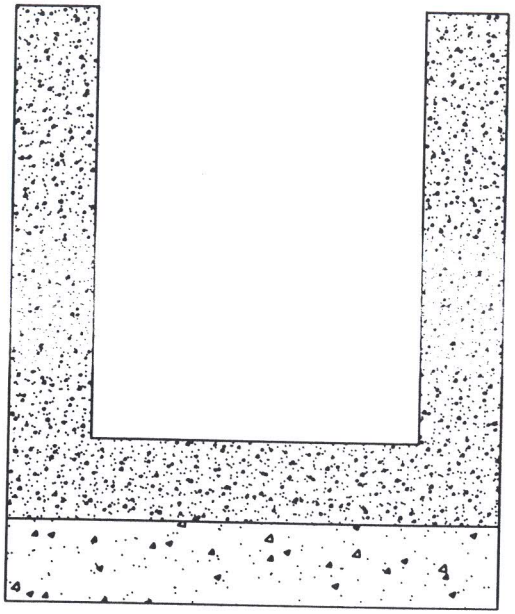
Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Vidyaranyapura Sub Division



CROSS SECTION OF CULVERT

Zeeshan
AE

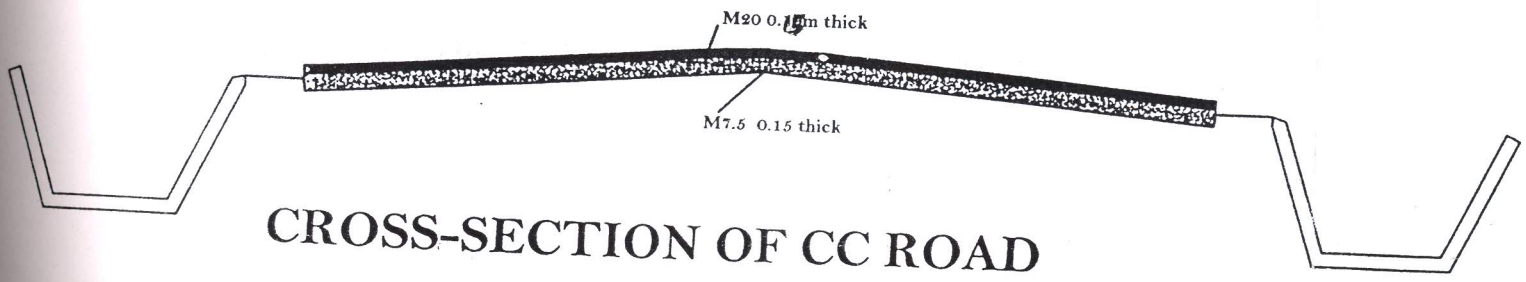


CROSS-SECTION FOR DRAIN

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER
VIDYARANYAPURA SUB DIVISION.

NAME OF WORK:-



CROSS-SECTION OF CC ROAD

INDEX

M7.5 1:4:8 0.15m Thick

M20 1:1.5:3 0.10m Thick

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER
VIDYARANYAPURA SUB DIVISION.